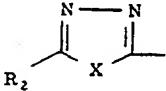
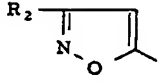
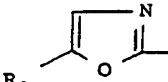
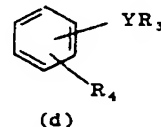


DE 38 16807 + DE 38 24879 (4+5a)

OD-334470/89

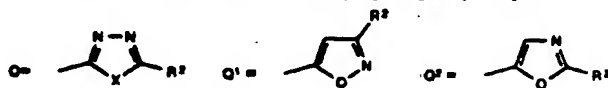
<p>89-334470/46 C02 SCHD 13.05.88 SCHERING AG *EP-342-150-A 19.07.88-DE-824879 (+DE-816807) (15.11.89) A01n-43/82 C07d-261/10 C07d-263/46 C07d-271/10 C07d-285/12 New azole ether(s) - useful as pesticides esp. against nematodes C89-148240 R(AT BE CH DE ES FR GB GR IT LI LU NL SE)</p>	<p>C(7-H1, 7-H2, 12-N1) 3 C0066</p> <p>when A = gp. (a): X = O or S; and either (i) R₁ = CF₂Br, -CH₂-CF₃, -CF₂-CF₂Br, -CH₂CF₂CF₂H or CH₂CH₂F; and R₂ = Ph, biphenyl or naphthyl, each opt. substd. by halogen, 1-4C alkyl, 1-4C alkoxy, 1-4C alkylthio, 1-4C haloalkyl, 1-4C haloalkoxy, 1-4C haloalkylthio, NO₂ or CN; or (ii) R₁ = 1-12C alkyl or 2-12C alkenyl each opt. substd. by one or more halogen; and R₂ = gp. of formula (d):</p>	<p>Other Priorities: 13.06.88-DE-820456 15.06.88-DE-820628</p> <p>Azole ethers of formula (I) are new:</p> <p style="text-align: center;">A — SR₁ (I)</p> <p>A = a gp. of formula (a) - (c):</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>(a)</p> </div> <div style="text-align: center;">  <p>(b)</p> </div> <div style="text-align: center;">  <p>(c)</p> </div> </div>
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Y = O or S;
 R₃ = 1-12C fluoroalkyl or 2-12C fluoroalkenyl;
 R₄ = H, halogen, 1-6C alkyl, 1-6C alkoxy, 1-6C alkylthio,
 EP-342150-A*

<p>1-4C haloalkyl, 1-4C haloalkoxy, 1-4C haloalkylthio, NO₂ or CN; when A = gp. (b) or (c): R₁ = 1-12C alkyl or 2-12C alkenyl each opt. substd. by one or more halogen; R₂ = Ph, biphenyl or naphthyl each opt. substd. by one or more halogen; 1-4C alkyl, 1-4C alkoxy, 1-4C alkylthio, 1-4C haloalkyl, 1-4C haloalkoxy, 1-4C haloalkylthio, NO₂ or CN.</p> <p>MORE SPECIFICALLY A = gp. (a); and (i) R₁ = bromodifluoromethyl; R₂ = phenyl opt. substd. (pref. of the 4-position) by halo, 1-4C alkoxy or 1-4C alkyl; or (ii) R₁ = 1-4C fluoroalkyl or 2-4C fluoroalkenyl opt. substd. by bromo; R₂ = phenyl substd. (pref. in the 4-position) by 1-4C fluoroalkoxy.</p> <p>USE/ADVANTAGE (I) are useful as pesticides, esp. against nematodes. They also show good activity against biting and sucking insects and their eggs and mites. The cpds. have good plant compatibility. Appln. rate is 0.03 - 10 kg (pref. 0.3 - 6 kg) per ha.</p>	<p>PREPARATION</p> <p style="text-align: center;"> A—S—Y + ZR₁ $\xrightarrow[\text{raised temp., pressure}]{\text{base}}$ (I) </p> <p style="text-align: center;">(II)</p> <p>Z = leaving gp.; Y = H, NH₄ or alkali metal.</p> <p>EXAMPLE 80% suspension of NaH (1.65 g), washed with toluene, was suspended in DMF (20 ml). At 5-10°C a soln. of 5-(4-chlorophenyl)-1,3,4-thiadiazole-2-thiol (5.5 g) in DMF (40 ml) was added and stirred for 30 min. at 10°C. Dibromodifluoromethane (11.6 g) was added dropwise and the mixt. stirred for 3 hr. at 10°C. After work up and purification by flash column chromatography, 2-bromodi- fluoromethylthio-5-(4-chlorophenyl)-1,3,4-thiadiazole (2.4 g, 13.2%), m. pt. 72°C was obtd. (14pp1917EDDwgNo0/0). (E) ISR: EP-217747/EP-220025 US4001228.</p> <p>(I) 8JG, 8PG, 8MG, 9GD, 10G 9GG, 18Z</p> <p style="text-align: right;">EP-342150-A</p>
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112: 198390z Substituted azole thioethers, their preparation
 and use as pesticides. Huebl, Dieter; Buehmann, Ulrich; Pieroh,
 Ernst; Joppien, Hartmut (Schering A.-G.) Eur. Pat. Appl. EP
 342,150 (Cl. C07D285/12), 15 Nov 1989, DE Appl. 3,816,807, 13
 May 1988; 14 pp. ASR¹ (I; A = azolyl groups Q - Q²; R¹ = BrCF₂.



CF₃CH₂, BrCF₂CF₂, HCF₂CF₂CH₂, FCH₂CH₂, (un)substituted C₁₋₁₂
 alkyl, (un)substituted C₂₋₁₂ alkenyl; R² = (un)substituted Ph,
 biphenyl, naphthyl, substituted phenyloxy, -phenylthio; X = O, S)
 were prepd. At 5-10° 5-(4-chlorophenyl)-1,3,4-thiazole-2-thiol in
 DMF was added NaH in paraffin and the mixt. stirred for 30 min at
 10°. CBr₂F₂ was added dropwise and the mixt. stirred for 3 h at 10°
 to give I (A = Q; X = S; R¹ = BrF₂C; R² = 4-ClC₆H₄) (II).
 Nematode attack by *Meloidogyne incognita* was 100% controlled by
 II at 25 mg/L soil.

11-01: 126 767 -00-8

12-01: -36-0

13-01: -46-2

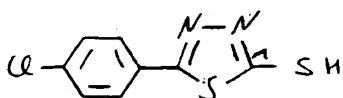
Referate aus CHEMICAL PATENTS INDEX von DERWENT				
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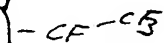
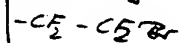
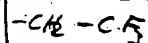
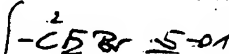
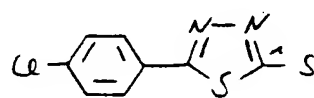
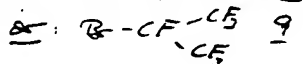
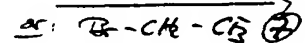
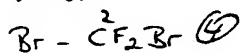
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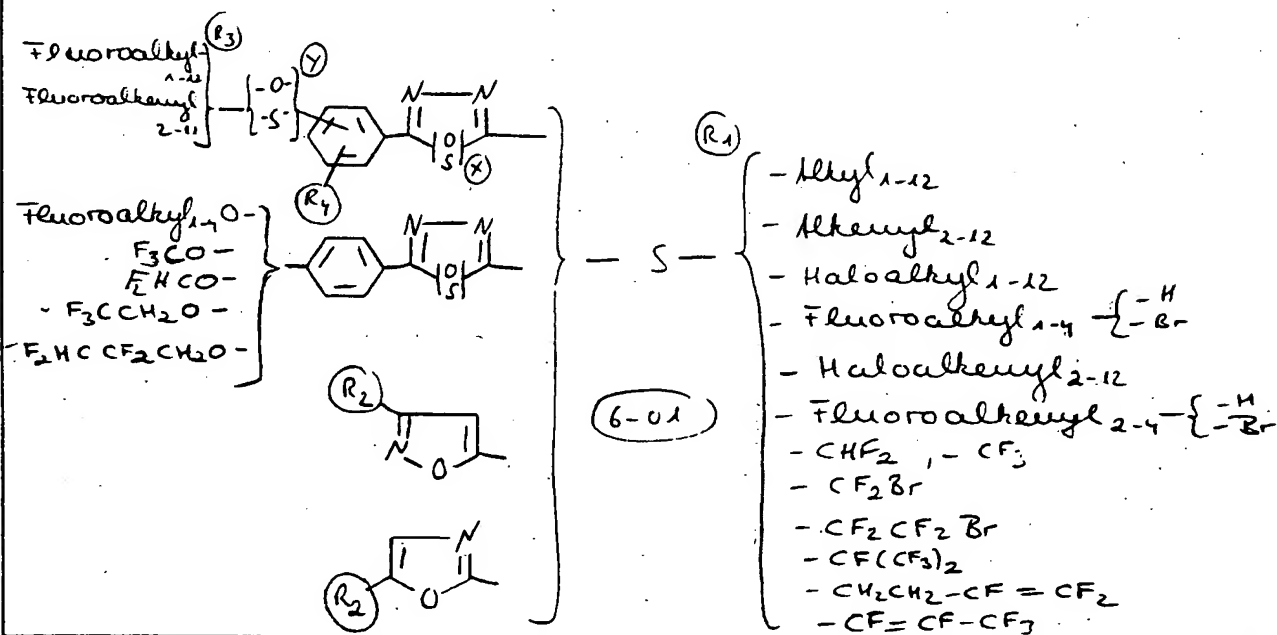
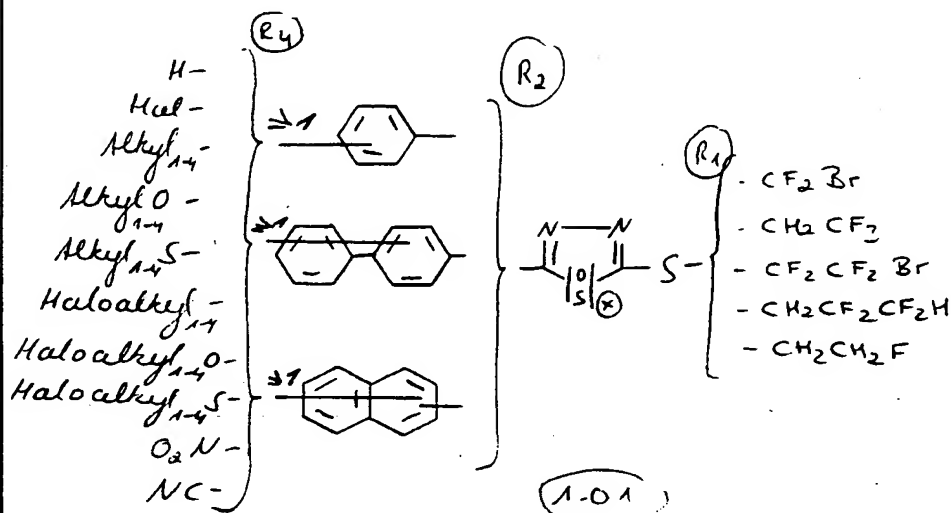
Preparation / Example



Natt



10-01



IDC

Bemerkungen

Blatt-Nr.

Blattzahl

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